





Created: 1 day, 10 hours after earthquake

PAGER

Version 5

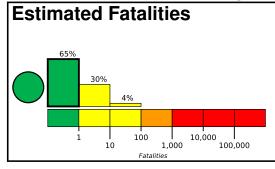
10,000

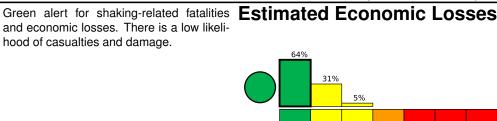
1,000

100,000

M 7.0, 27 km ENE of Ishinomaki, Japan Origin Time: 2021-03-20 09:09:45 UTC (Sat 18:09:45 local) Location: 38.4752° N 141.6069° E Depth: 54.0 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov





Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	11,386k*	41,264k	2,100k	2,008k	17k	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan 5000

Structures 10000

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are heavy wood frame and reinforced/confined masonry construction.

Historical Earthquakes

Selected City Exposure

from GeoNames.org

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1987-12-17	359	6.5	VII(8,018k)	2
1994-12-28	278	7.7	VII(130k)	3
1983-05-26	309	7.7	VII(174k)	104

Recent earthquakes in this area have caused secondary hazards such as tsunamis, landslides and fires that might have contributed to losses.

139.8 142.0°E 144.2°E 40.6° N lachinohe Akitash 38.8°N Fuku: hima Ŋ 36.9 N

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

bold cities appear on map.

MMI City Population Ishinomaki V١ V١ **Iwanuma** 42k ۷I Yamoto 32k ۷I Watari 36k VΙ Sendai 1,063k V١ Rifu 35k IV Saitama 1,193k I۷ Tokyo 8,337k IV Niigata 505k IV Chiba 920k IV Yokohama 3,574k

(k = x1000)